

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Product name: ARGLOY N.P.

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses of the substance or mixture  
Manufacturing of a fixed or removable dental prosthesis in a dental laboratory

**1.3. Details of the supplier of the safety data sheet**

Manufacturer:  
Company name: The Argen Corporation  
Full address: 5855 Oberlin Drive, San Diego, CA 92121-4718, USA  
Technical Service: 1-800-255-5095 Customer Care: 1-800-255-5095  
Fax: 1-858-626-8686  
E-mail address of competent person responsible for the SDS: [info@argen.com](mailto:info@argen.com)

**1.4. Emergency telephone number**

Emergency telephone number: Chemtrec: 1-703-741-5970 (collect calls accepted)

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

Classification information  
This product does not meet the classification criteria in (EC) N° 1272/2008 (CLP)  
This product does not meet the labeling criteria stated in 67/548/EWG and 1999/45/EC

**2.2. Label elements**

Labeling is in accordance with (EC) No 1272/2008 (CLP Regulation). Label elements in the solid form which the product is marketed

**2.3. Other hazards**

EYES	Contact with eyes may cause severe irritation and possible eye burns.
SKIN:	May cause severe irritation and possible burns.
INGESTION:	May cause gastrointestinal irritation with nausea, vomiting, and diarrhea.
INHALATION:	May cause irritation and burns to the respiratory tract.
BERYLLIUM	Causes lung irritation, dyspnea. A pneumonitis referred to as acute beryllium disease may result from single exposure to beryllium and is occasionally fatal. This form of beryllium disease can occur as a result of exposure caused by the abrasion of dental alloys containing beryllium. Pneumonitis may result from single exposure to beryllium and is occasionally fatal. Chronic inhalation causes "berylliosis" or chronic pulmonary granulomatosis. Pneumonitis may result from single exposure and is occasionally fatal. Eye contact, can also cause conjunctivitis. Beryllium is considered an experimental carcinogen of lungs and bones. It has also been associated with liver damage. In addition, recent research indicates that low-level exposure to Be below the PEL-TLV by way of, but not necessarily limited to, the inhalation route is associated with chronic beryllium disease (CBD). Symptoms of (CBD) include dyspnea, anorexia, weight loss, weakness, chest pain, cough, and pulmonary insufficiency, and can result in death. Beryllium is listed as: Carcinogenic to humans by the IARC (International Agency for Research on Cancer); Reasonably Anticipated to be a Human Carcinogen by the NTP (National Toxicology Program); and as a Confirmed Human Carcinogen by the ACGIH (American Conference of Governmental Industrial Hygienists).
CARBON	Dust causes irritation and is possibly allergenic. Cases of pulmonary fibrosis and emphysema have resulted from prolonged inhalation of dust.
CHROMIUM	May cause histological fibrosis of the lungs. There are some references to chromium causing lung and/or nasal cancer. In addition, chromium metal has caused tumors in laboratory animals via implant and intravenous routes. Chromium is listed as a Confirmed Human Carcinogen by the ACGIH (American Conference of Governmental Industrial Hygienists).
MOLYBDENUM	Chronic inhalation of molybdenum compounds by experimental animals has caused appetite and weight loss, diarrhea, muscular incoordination, hair loss and gout. Excessive intake of molybdenum may interfere with copper metabolism.
NICKEL	Dust may cause headache, coughing, dizziness or difficult breathing. Prolonged exposure may cause dermatitis. Ingestion may cause nausea, vomiting, headaches, dizziness, gastrointestinal irritation. Target organs: Nasal cavities, lungs shin. Nickel is listed as: Possibly Carcinogenic to Humans by the IARC (International Agency for Research on Cancer) and Reasonably Anticipated to be a Human Carcinogen by the NTP (National Toxicology Program).

PBT assesment  
No data available

vPvB assesment  
No data available

**SECTION 3: Composition/information on ingredients**

**3.1. Substances**

This product is not a substance - This is not applicable

**3.2. Mixtures**

Ingredients:

METAL	%	SYMBOL	CAS NO	EC/EG NO	ACGIH 8 HR TLV	OSHA 8 HR PEL
NICKEL	76	Ni	7440-02-0	231-111-4	1 mg/m3	1 mg/m3
IRON	<1	Fe	7439-89-6	231-096-4	5 mg/m3	10mg/m3
SILICON	<1	Si	7440-21-3	231-130-8	10 mg/m3	10 mg/m3 (total dust) 5 mg/m3 (respiratory dust)
CARBON	<1	C	7440-44-0	231-153-3	3.5 mg/m3	3.5 mg/m3
MOLYBDENUM	6	Mo	7439-98-7	231-107-2	Not established	Not established
CHROMIUM	14	Cr	7440-47-3	231-157-5	0.5 mg/m3	0.5 mg/m3 CRVI compounds: Ceiling=0,1mg/m3
BERYLLIUM	1.8	Be	7440-41-7	231-150-7	8-hour TWA (ST) STEL Ceiling 0.05 µg/m³ (HhL) Up to 10-hour TWA (ST) STEL (C) Ceiling Ca 0.5 µg/m³	8-hour (TWA): 2 µg/m³ Acceptable Ceiling Concentration: 5 µg/m³ Acceptable max peak above the acceptable ceiling concentration for an 8-hr shift Concentration: 25 µg/m³ Max Duration: 30 min Cal/OSHA: 0.2 µg/m³ Ceiling: 25 µg/m³
ALUMINUM	2	Al	7429-90-5	231-072-3	10 mg/m3	15 mg/m3

Note: % values are in weight percent and reflect nominal composition.  
Note: 'x' denotes a content of less than one percent

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

EYE CONTACT:	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids.
SKIN CONTACT:	Scrub skin thoroughly with soap and water. If victim is conscious and alert, give 2-4 cupfuls of milk or water
INGESTION:	If victim is conscious and alert, give 2-4 cupfuls of milk or water. Induce vomiting. **Never give anything by mouth to an unconscious person. Get medical aid.
INHALATION:	Remove affected person to fresh air and assist with additional oxygen if necessary. Get first aid if other symptoms appear.

**4.2. Most important symptoms and effects, both acute and delayed**

No data available

**4.3. Indication of any immediate medical attention and special treatment needed**

No data available

**SECTION 5: Fire-fighting measures**

**5.1. Extinguishing media**

Metal fire powders, sand

**5.2. Special hazards arising from the substance or mixture**

Heating Beyond the melting range may generate fumes which are not flammable

**5.3. Advice for fire-fighters**

Wear protective clothing and use a self-contained breathing apparatus

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**  
Use proper personal protective equipment as described in section 8.  
**For emergency responders**  
Use proper personal protective equipment as described in section 8.

**6.2. Environmental precautions**

Collect contaminated materials in separate containers. Discharge according to local regulations.

**6.3. Methods and material for containment and cleaning up**

Avoid creating dust and pick-up using mechanical means

**6.4. Reference to other sections**

No data available

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Ensure the workspace has proper ventilation  
Do not consume substances during work.  
General protective and hygiene measures  
Wash hands before and after breaks. Remove contaminated clothing immediately. Do not ingest, or allow to come into contact with the eyes.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep container closed in a ventilated area

**7.3. Specific end use(s)**

No data available

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

Occupational exposure limit values

**8.2. Exposure controls**

RESPIRATORY: RESPIRATORY: Provide general ventilation and local exhaust to keep levels below the TLV stated in SECTION 3. Wear a NIOSH approved respirator for dust exceeding the TLVs.  
Latex gloves are recommended while grinding, heat resistant gloves should be worn while casting and handling hot metals or molds.

EYE PROTECTION: Wear eye protection suitable to each individual operation.

OTHER: Wear apron, lab coat or other protective clothing.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Appearance:	WHITE
Odor:	Not Applicable
pH:	Not Applicable
Boiling Point:	Not Applicable
Melting Range:	1230-1290 °C
Flash Point:	Not Applicable
Flammability:	Not Applicable
Autoflammability:	Not Applicable
Explosive Properties:	Not Applicable
Oxidizing Properties:	Not Applicable
Vapor Pressure:	Not Applicable
Solubility(Water/Fat):	Insoluble

**9.2. Other information**

No data available

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

At ordinary and high (below the melting range) temperatures, the material oxidizes but is stable. At very high temperatures the alloy produces fumes.

**10.2. Chemical stability**

Product is stable under normal storage and handling conditions. See Section 7.

**10.3. Possibility of hazardous reactions**

Hydrogen gas can possibly form if the product comes into contact with acid

**10.4. Conditions to avoid**

N/A if the product is handled according to the Instructions for Use

**10.5. Incompatible materials**

Acid

**10.6. Hazardous decomposition products**

None are known

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

No data is available other than the information provided in Sections 2 and 3

**SECTION 12: Ecological information**

**12.1. Toxicity**

No data available

**12.2. Persistence and degradability**

No data available

**12.3. Bio-accumulative potential**

No data available

**12.4. Mobility in soil**

No data available

**12.5. Results of PBT and vPvB assessment**

No data available

**12.6. Other adverse effects**

No data available

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Product:  
Always recover all waste material and send to Department A at The Argen Corporation for refining.  
Packaging:  
Empty container completely and dispose according to local regulations.

**SECTION 14: Transport information**

**14.1. Transport ADR/RID/AND**

This product is not subject to ADR/RID/AND regulations

**14.2. Transport IMDG**

This product is not subject to IMDG regulations

**14.3. Transport ICAO-TI / IATA**

This product is not subject to ICAO-TI / IATA regulations

**14.4. Other information**

No data available

**14.5. Environmental hazards**

No data is available other than the information provided in Sections 2 and 3

This product is not subject to ICAO-TI / IATA regulations

**14.6. Special precautions for user**

none

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Germany:  
Wassergefährdungsklasse WGK (VwVvS): WGK-1 (self-assessed)

**15.2. Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

**SECTION 16: Other information**

**16.1. Training advice**

In addition to health, safety and environmental training programs for their workers, companies must ensure that workers read, understand and apply the requirements of this SDS.

**16.2. Disclaimer**

The information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof. However, THE ARGEN CORPORATION makes no representations as to the completeness of accuracy thereof and information is supplied upon the condition that the persons receiving the above material will make their own determination as to its suitability for their purposes prior to use. In no event will "THE ARGEN CORPORATION" be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. No representations or warranties, either expressed or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers.

